

**REPORT/RECOMMENDATION TO THE BOARD OF SUPERVISORS
OF SAN BERNARDINO COUNTY, CALIFORNIA
AND RECORD OF ACTION**

May 13, 2003

72

FROM: G. DANIEL OJEDA, Director
Architecture & Engineering Department

DAVE GIBSON, Director
Facilities Management Department

**SUBJECT: FONTANA COUNTY COMPLEX HVAC SYSTEM AND CONTROLS
REPLACEMENT - AWARD CONSTRUCTION CONTRACT AND AUTHORIZE
FILING NOTICE OF COMPLETION**

RECOMMENDATION:

1. Award a \$1,163,000 construction contract to D. Burke Mechanical, Inc. of Corona for the Fontana County Complex HVAC System and Controls Replacement in Fontana; and
2. Authorize the Architecture and Engineering Department to accept the work as 100% complete and file the Notice of Completion.

BACKGROUND INFORMATION: The Fontana County Complex (Arrow Blvd. in Fontana-65,508 s.f.) was built in the 1970's and is still utilizing the original HVAC equipment. There are currently two evaporative condensers, two chillers, two boilers and four multi-zone air-handlers. These units and the associated pump equipment have exceeded their life expectancy. In July 2001, Facilities Management hired Mathaudhu Engineering to review the existing HVAC systems of the Fontana County Complex and several other County Facilities for recommendations limited to modification and/or replacement of equipment necessary in order to increase efficiency and reduce maintenance costs. The study recommended replacing certain portions of the existing system supporting the Fontana Complex, with more energy efficient equipment.

This project consists of replacing the existing HVAC equipment with new high efficiency rotary chillers, cooling towers with variable drive fans, pump motor drives for chilled and condensed water, boilers, new air handlers and new DDC controls. The construction will be done in phases to minimize disruption to the operation of the Fontana County Complex. The new equipment is more energy efficient than the existing equipment and should result in significant energy cost savings. Also, an application has been submitted to Edison requesting an energy cost rebate for installation of this equipment.

The original scope of work for this project was developed prior to the Mathaudhu Engineering's study and consisted only of the replacement of one chiller, one cooling tower and controls with an estimated budget of \$400,000. After receiving the input from the Mathaudhu report, the scope increased to include the installation of a new boiler and new air handlers but the budget amount was not increased. Subsequently, the budget for this scope of work was increased to \$600,000, as reported in the HVAC Project Summary Report presented to the Board on July 16, 2002.

Page 1 of 2

Record of Action of the Board of Supervisors

72

BOARD OF SUPERVISORS

FONTANA COUNTY COMPLEX HVAC SYSTEM AND CONTROLS REPLACEMENT – AWARD CONSTRUCTION CONTRACT AND AUTHORIZE FILING NOTICE OF COMPLETION

May 13, 2003

Page 2

72

On August 6, 2002 the Board awarded a contract to T.M.A.D. Engineering to design the new HVAC system for the Fontana County Complex based on the preliminary study prepared by Mathaudhu. As the design for this project progressed, the scope of work became more fully defined and additional problems and deficiencies were identified. The new scope of work includes the replacement of two chillers, two cooling towers, two boilers, four pumps, four air handlers, DDC controls, ductwork, new piping, and associated electrical and structural modifications. This change to the project scope necessitates increasing the total project budget from \$600,000 to \$1,398,350.

On December 17, 2002 the Board authorized the Architecture & Engineering Department to advertise for competitive bids for this project. A&E advertised for competitive bids in the local newspaper and on the County website. Five contractors attended a pre-bid meeting on January 14, 2003. On January 30, 2003 two bids were received: D. Burke Mechanical Inc. of Corona for \$1,163,000 and Los Angeles Air Conditioning, Inc. of La Verne for \$1,224,000. D. Burke Mechanical Inc. was selected on the basis of being the lowest responsible bidder.

This project is consistent with a County Administrative Office approved Capital Improvement Program request.

REVIEW BY OTHERS: This item has been coordinated with Eli Montoya, Department Contract Compliance Designee on May 5, 2003; approved as to legal form by County Counsel (Jean Basle, Deputy County Counsel) on May 6, 2003; and reviewed by the County Administrative Office (Lynn Chacon, Administrative Analyst) on May 6, 2003.

FINANCIAL IMPACT: This project was funded in the amount of \$400,000 (construction-\$312,000; contingencies-\$30,000; design/project management/inspection -\$58,000) in the FY 2001/02 Capital Improvement Program with expenditures of \$8,282 resulting in a carryover of \$391,718 to FY 2002/03. On May 13, 2003, the Board will consider the HVAC Project Summary Report that revises the estimated project cost to \$1,398,350. Project costs include construction (\$1,163,000), contingencies (\$139,800), design/project management/inspection costs (\$95,550).

COST REDUCTION REVIEW: The County Administrative Office has reviewed this agenda item and concurs with the A&E and Facilities Management proposal and recommends this action based on the necessity to repair the HVAC system in a timely manner. Due to the deteriorated condition of the system, the system could fail at any time.

SUPERVISORIAL DISTRICT(S): Second.

PRESENTER: G. Daniel Ojeda, Director, A&E, 387-5025
Dave Gibson, Director, Facilities Management, 387-2230

KT: 7-5058

js: 7-5025

72